

What is claimed is:

1. A temperature compensation attenuator comprising
a base **6**;
a film thermistor **1** disposed on said base;
an input terminal **3** and an output terminal **4** which are connected to the two ends of
said film thermistor **1**,
wherein
said temperature compensation attenuator also comprises a film resistor **2**, and the top
side of the film resistor **2** is electronically connected to the bottom side of the film
thermistor **1**, and the bottom side of the film resistor **2** is electronically connected to the
ground terminal **5**.
2. The temperature compensation attenuator according to claim 1, wherein said two ends
of the film resistor **2** are connected to the input terminal **3** and the output terminal **4**,
respectively.
3. The temperature compensation attenuator according to claim 1 or claim 2, wherein said
film resistor **2** is a film thermistor, having a temperature characteristic opposite to that of
the film thermistor **1** disposed on the base **6**.
4. The temperature compensation attenuator according to claim 3, wherein said film
thermistor **1** is a thermistor having a negative temperature coefficient wherein the
resistance value decreases with the increase of the temperature, and said film resistor **2** is
a thermistor having a positive temperature coefficient wherein the resistance value
increases with the increase of the temperature.
5. The temperature compensation attenuator according to claim 3, wherein said film
thermistor **1** is a thermistor having a positive temperature coefficient wherein the

resistance value increases with the increase of the temperature, and said film resistor **2** is a thermistor having a negative temperature coefficient wherein the resistance value decreases with the increase of the temperature.

6. The temperature compensation attenuator according to claim 3, wherein the resistance value and the temperature coefficient of said film thermistor **1** and said film resistor **2** are selected in accordance with the compensation of the gain and the power level in order to satisfy the requirement for the size of the attenuation, isolation, and reflection coefficients.

7. The temperature compensation attenuator according to claim 1 or claim 2, wherein any configuration of the resistance distribution parameters of said film thermistor **1** and said film resistor **2** is in series, in parallel, or in combination.

8. The temperature compensation attenuator according to claim 1 or claim 2, wherein the form of the contact side of said film thermistor **1** with said film resistor **2** is: one side of the film thermistor **1** is electronically contacted with multisides of the film resistor **2**, multisides of the film thermistor **1** are electronically contacted with one side of the film resistor **2**, or multisides of the film thermistor are electronically contacted with multisides of the film resistor **2**.

9. The temperature compensation attenuator according to claim 8, wherein said film thermistor **1**, said film resistor **2**, said input terminal **3**, said output terminal **4**, and said ground terminal are in the same plane or in different planes.

10. The temperature compensation attenuator according to claim 1 or claim 2, wherein the configuration of said temperature compensation attenuator is of a surface mount type, or a pin leg lead type, or a patch cord type.

11. The temperature compensation attenuator according to claim 1 or claim 2, wherein said temperature compensation attenuator is integrated on the base **6** by printing the film thermistor by using multilayer masking technology.